

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

06/09/2011

Marianne MacDougall
Assistant District Attorney, Norfolk County

Dear ADA MacDougall,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Drug Analysis Laboratory Receipt.
2. Curriculum Vitae for Annie Dookhan & Kate Corbett.
3. Control Cards with analytical results for samples [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan
Chemist II
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6631

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION



The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
State Laboratory Institute

Boston Drug
Laboratory
Tel (617) 983-6622
Fax (617) 983-6625

Amherst Drug
Laboratory
Tel (413) 545-2601
Fax (413) 545-2608

Boston Hours
8:00 – 11:00
2:00 – 4:00

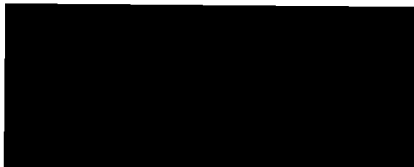
Amherst Hours
9:00 – 12:00
1:00 – 4:00

DRUG RECEIPT

City or Department: RANDOLPH Police Dept Police Reference No.: [REDACTED]

Name and Rank of Submitting Officer: Detective PAUL Smyth

Defendant(s) Name (last, first, initial)



Description of Samples

To be completed by Lab Personnel
Gross Weight Lab Number

1/2 orange tablet in a clear wrap

3.41g



Received by: PLS

Date: 8/17/10

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION



The Commonwealth of Massachusetts
Executive Office of Health and Human Services

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Laboratory
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Boston Hours
8:00 – 11:00
2:00 – 4:00

Amherst Hours
9:00 – 12:00
1:00 – 4:00

DRUG RECEIPT

City or Department: RANDOLPH POLICE DEPT Police Reference No.: [REDACTED]

Name and Rank of Submitting Officer: DETECTIVE PAUL SMYTH

Defendant(s) Name (last, first, initial)



Description of Samples	To be completed by Lab Personnel	
	Gross Weight	Lab Number
2 packages of brownish powdery substance wrapped in clear plastic	5.45g	[REDACTED]

Received by: DZ

Date: 8/17/10

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Maintenance and repairs of all analytical instruments.

*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

*Responsible for the Quality Control/Quality Assurance program for the drug lab.

*Notary Public.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

*Writing, revising and reviewing Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

No. [REDACTED] Date Analyzed: 11/22/10
City: Randolph Police Dept.
Officer: Detective PAUL SMYTH
Def: [REDACTED]
Amount: 0.5 Subst: TAB
No. Cont: 1 Cont: pb
Date Rec'd: 08/17/2010 No. Analyzed:
Gross Wt.: 3.41 Net Weight:
Tests: 6 ASD
- 2CAC
Prelim: ? (BZP) Findings: Benzylpiperazine

No. [REDACTED] Date Analyzed: 11/19/10
City: Randolph Police Dept.
Officer: Detective PAUL SMYTH
Def: [REDACTED]
Amount: Subst: SUB
No. Cont: 2 Cont: pb
Date Rec'd: 08/17/2010 No. Analyzed:
Gross Wt.: 5.45 Net Weight: 3.76
Tests: 8 ASD
- 4CAC
Prelim: Heroin Findings: Heroin

DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Randolph ANALYST ASJ

No. of samples tested: Evidence Wt.

PHYSICAL DESCRIPTION:

0.5 orange broken tablet
11-pb

Gross Wt ():

Gross Wt ():

Pkg. Wt:

Net Wt: 0.1643

PRELIMINARY TESTS

Spot Tests

Cobalt
Thiocyanate (-) -

Marquis -

Froehde's -

Mecke's -

Microcrystalline Tests

Gold
Chloride

TLTA ()

OTHER TESTS

GC +

PRELIMINARY TEST RESULTS

RESULTS BZP

DATE 11-15-10

GC/MS CONFIRMATORY TEST

RESULTS BZP

MS
OPERATOR Benzylpiperazine
ICAC

DATE 11-22-10

DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Randolph ANALYST ASN

No. of samples tested:

Evidence Wt.

PHYSICAL DESCRIPTION:

Beige powdered substance
in 2 pbs

Gross Wt (2): 4.0408

Gross Wt ():

Pkg. Wt:

Net Wt:

PRELIMINARY TESTS

Spot Tests

Cobalt
2 Thiocyanate (+)
2 Marquis +
2 Froehde's +
2 Mecke's +

Microcrystalline Tests

Gold
Chloride
TLTA ()

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS Heroin

DATE 11-15-10

GC/MS CONFIRMATORY TEST

RESULTS Heroin

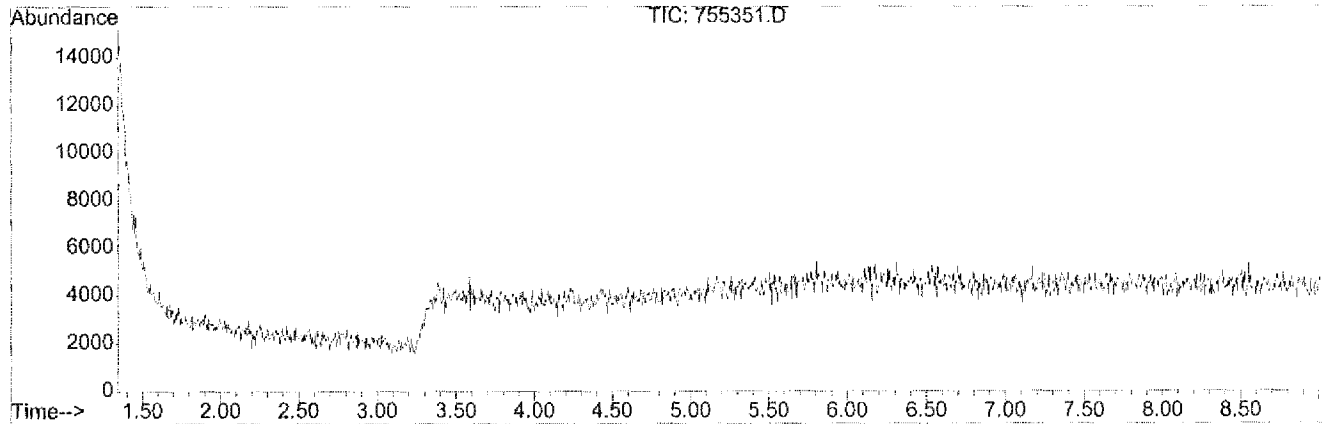
MS
OPERATOR KAC

DATE 11-19-10

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\11_19_10\755351.D
Operator : ASD/KAC
Date Acquired : 20 Nov 2010 19:33
Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: MDMA
Integrator : RTE



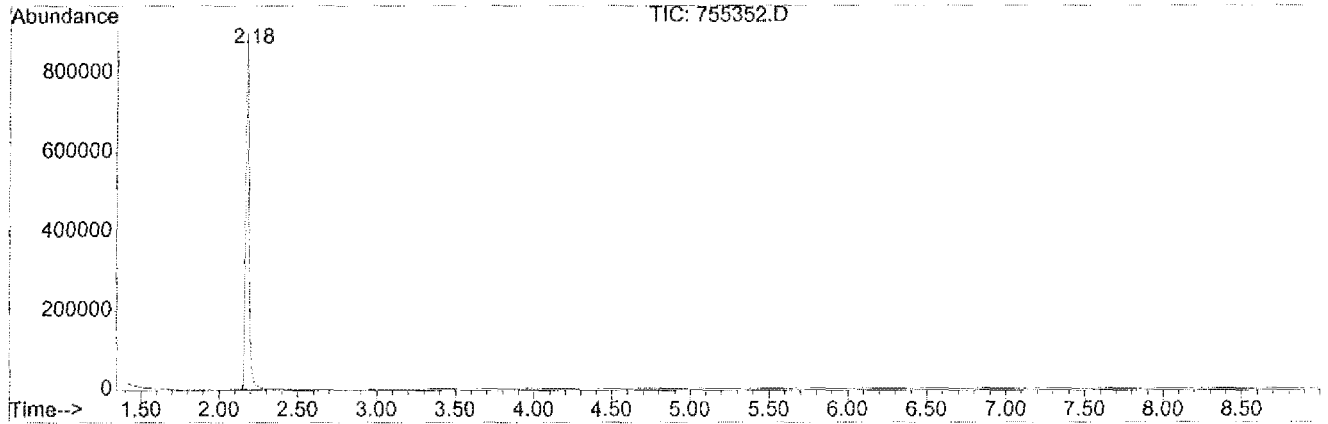
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\11_19_10\755352.D
Operator : ASD/KAC
Date Acquired : 20 Nov 2010 19:45
Sample Name : BENZYLPIPERAZINE STD
Submitted by : ASD
Vial Number : 10
AcquisitionMeth: MDMA
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.178	1363476	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

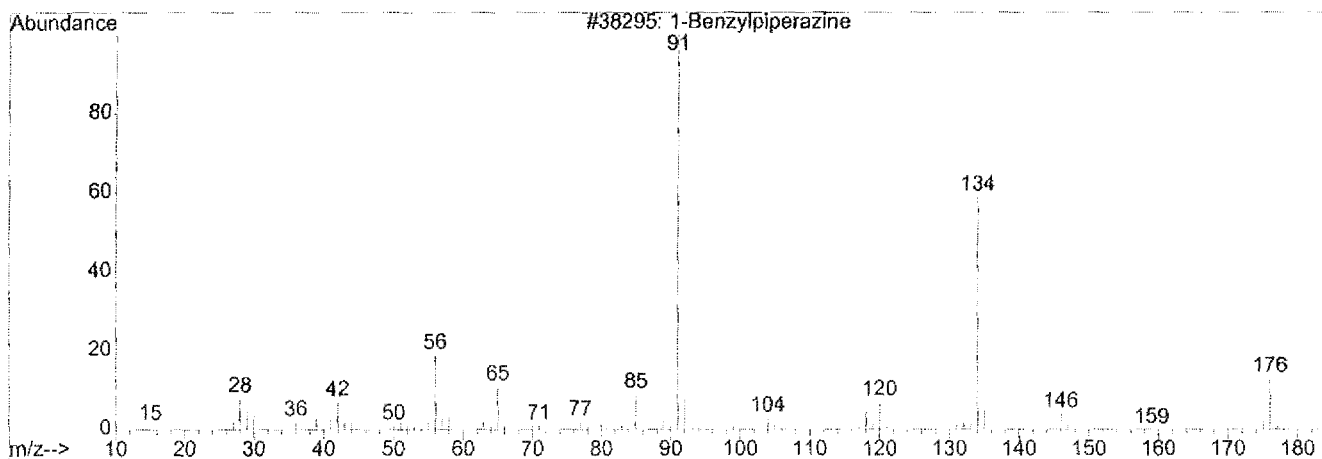
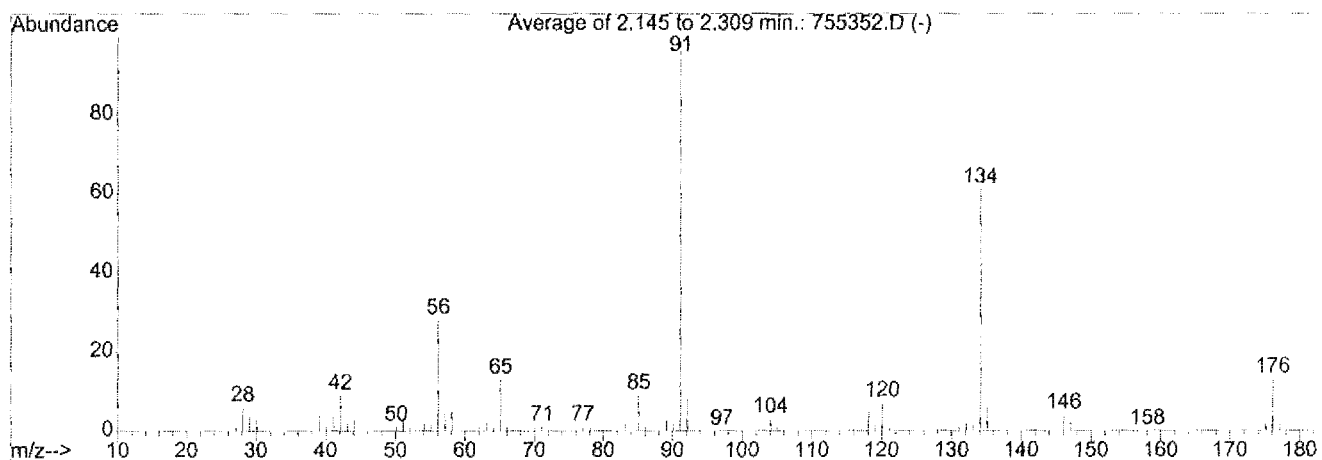
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File Name       : F:\Q4-2010\SYSTEM4\11_19_10\755352.D
Operator        : ASD/KAC
Date Acquired   : 20 Nov 2010  19:45
Sample Name     : BENZYLPIPERAZINE STD
Submitted by    : ASD
Vial Number     : 10
AcquisitionMeth : MDMA
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 95
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

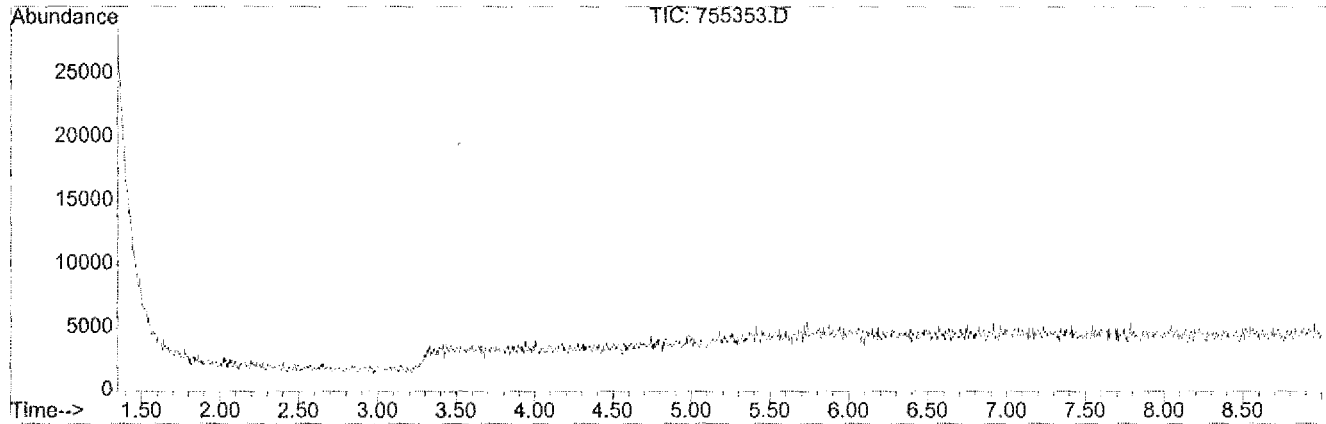
PK#	RT	Library/ID	CAS#	Qual
1	2.18	C:\DATABASE\NIST98.L		
		1-Benzylpiperazine	002759-28-6	95
		Ethanol, 2-[methyl(phenylmethyl)ami	000101-98-4	43
		2-Phenethanamine, N-benzyl-1-methyl	1000127-89-5	43



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\11_19_10\755353.D
Operator : ASD/KAC
Date Acquired : 20 Nov 2010 19:58
Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: MDMA
Integrator : RTE



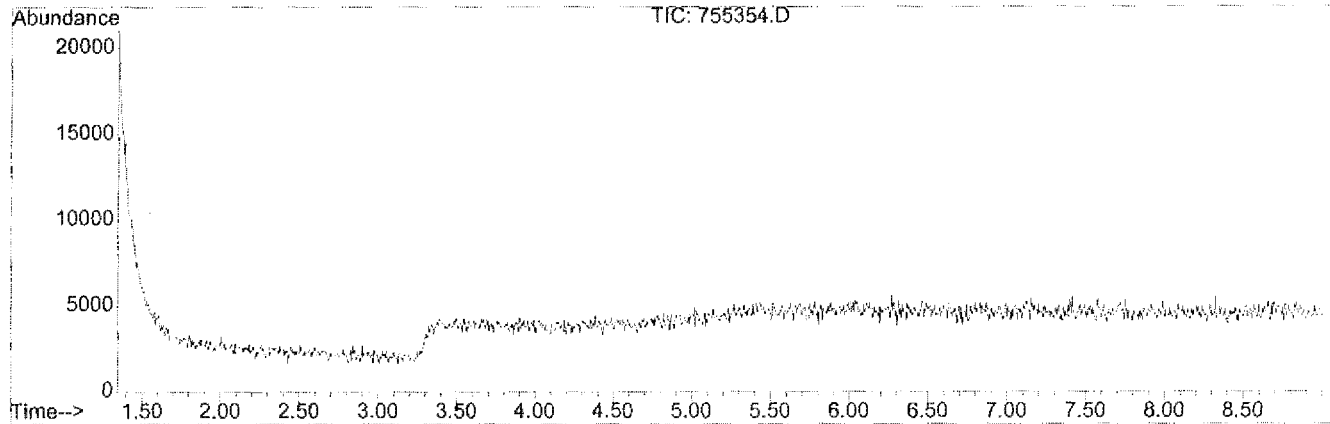
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\11_19_10\755354.D
Operator : ASD/KAC
Date Acquired : 20 Nov 2010 20:10
Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: MDMA
Integrator : RTE



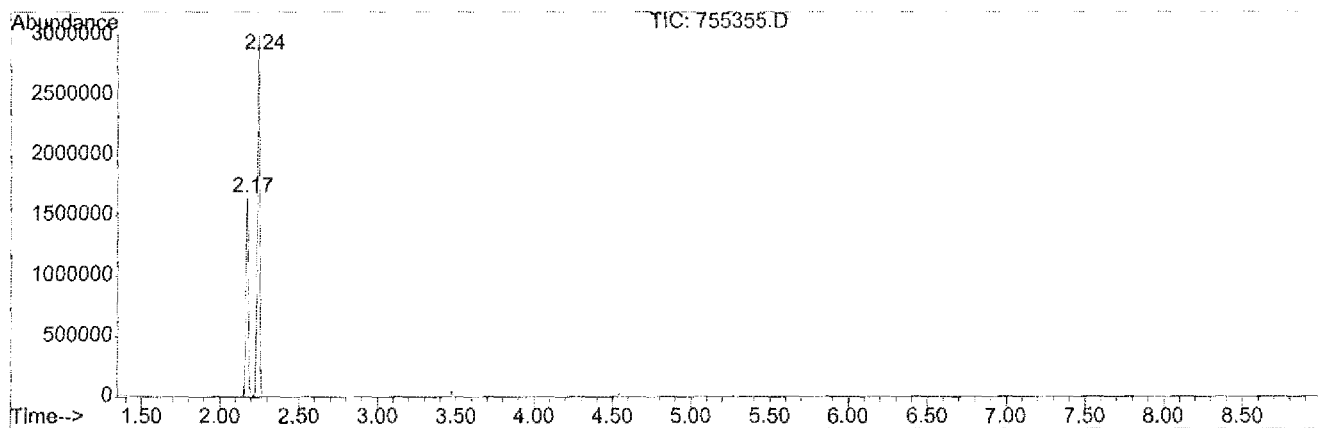
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\11_19_10\755355.D
 Operator : ASD/KAC
 Date Acquired : 20 Nov 2010 20:22
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 12
 AcquisitionMeth: MDMA
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.168	1774944	35.60	55.28
2.244	3210781	64.40	100.00

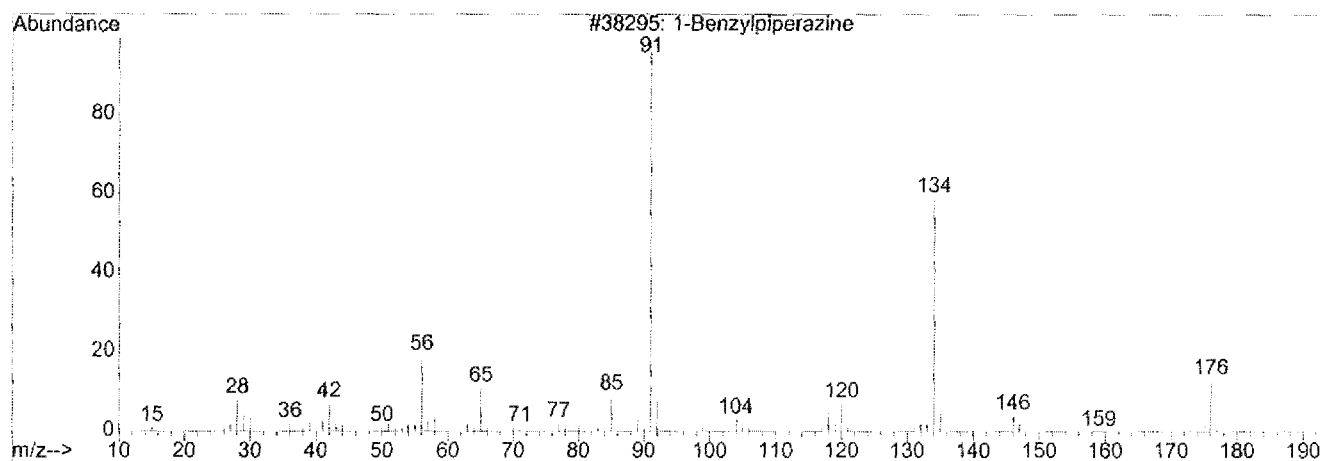
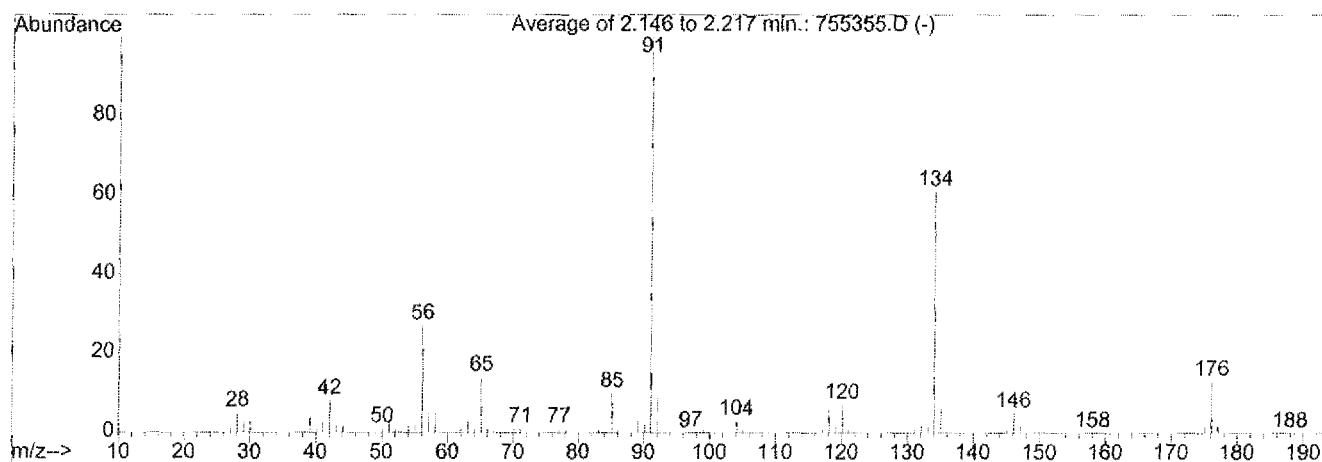
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\11_19_10\755355.D
 Operator : ASD/KAC
 Date Acquired : 20 Nov 2010 20:22
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 12
 AcquisitionMeth: MDMA
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 95
 C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
 C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	2.17	C:\DATABASE\NIST98.L		
		1-Benzylpiperazine	002759-28-6	95
		Benzene, (2-methoxyethenyl)-, (Z)-	014371-19-8	47
		Ethanol, 2-[methyl(phenylmethyl)ami	000101-98-4	43



Area Percent / Library Search Report

Information from Data File:

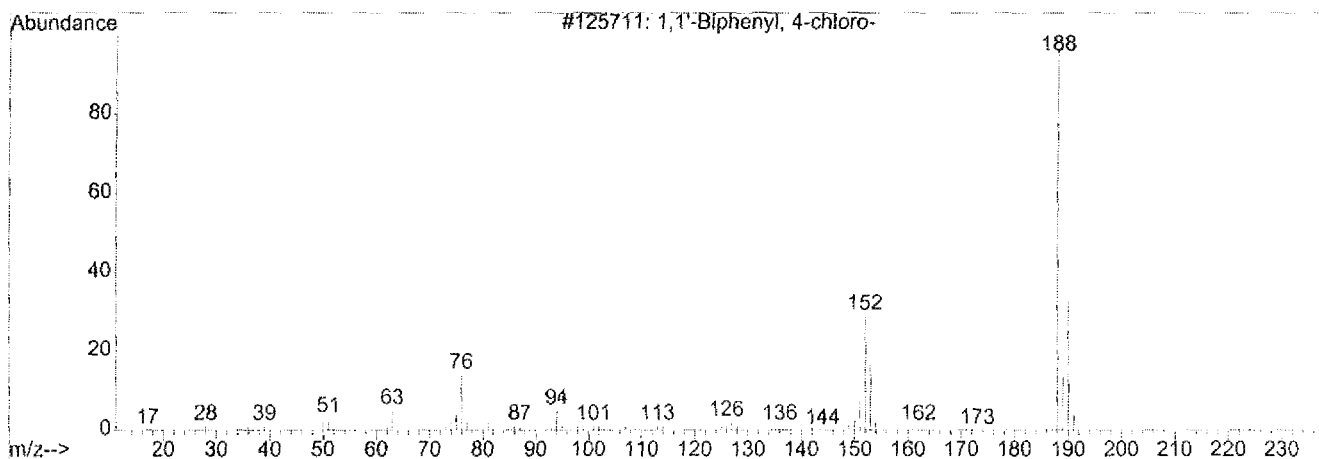
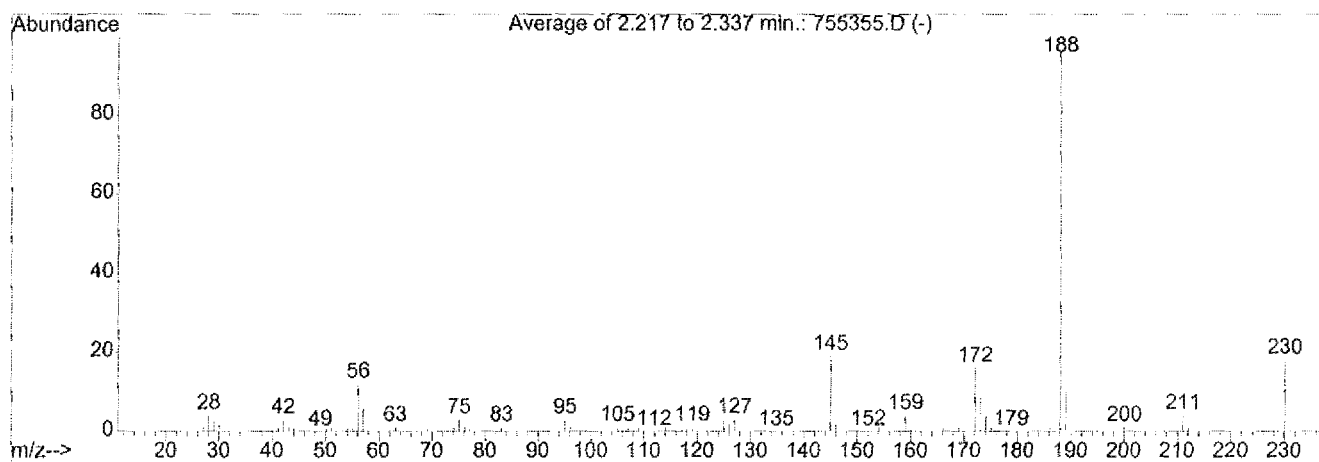
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File Name       : F:\Q4-2010\SYSTEM4\11_19_10\755355.D
Operator        : ASD/KAC
Date Acquired   : 20 Nov 2010  20:22
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 12
AcquisitionMeth : MDMA
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 95
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

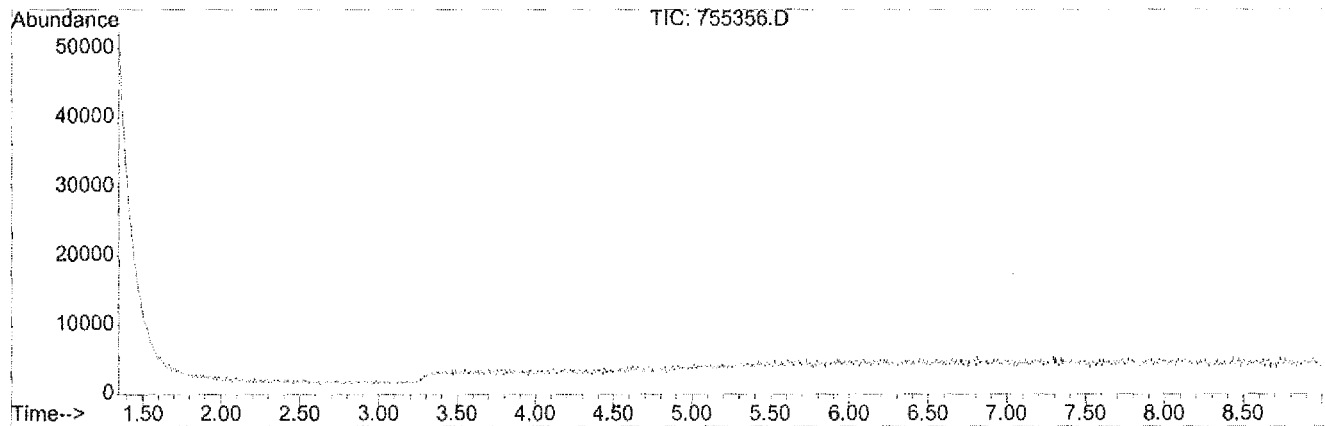
PK#	RT	Library/ID	CAS#	Qual
2	2.24	C:\DATABASE\NIST98.L		
		1,1'-Biphenyl, 4-chloro-	002051-62-9	47
		Coumarin, 5,7,8-trimethyl-	1000132-62-2	33
		2-Quinolinecarboxaldehyde, 8-hydrox	005603-22-5	9



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\11_19_10\755356.D
Operator : ASD/KAC
Date Acquired : 20 Nov 2010 20:35
Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: MDMA
Integrator : RTE



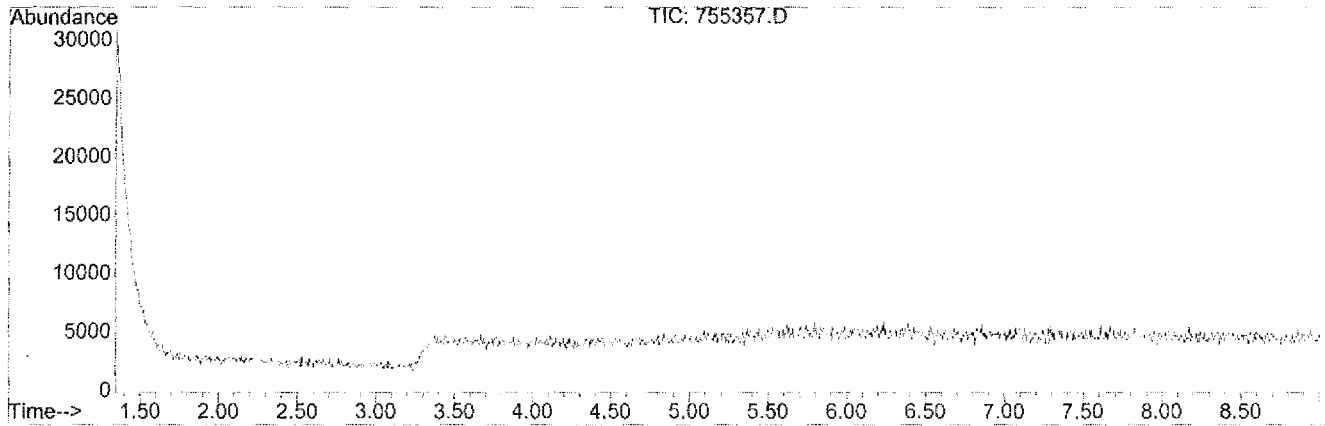
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\11_19_10\755357.D
Operator : ASD/KAC
Date Acquired : 20 Nov 2010 20:48
Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: MDMA
Integrator : RTE



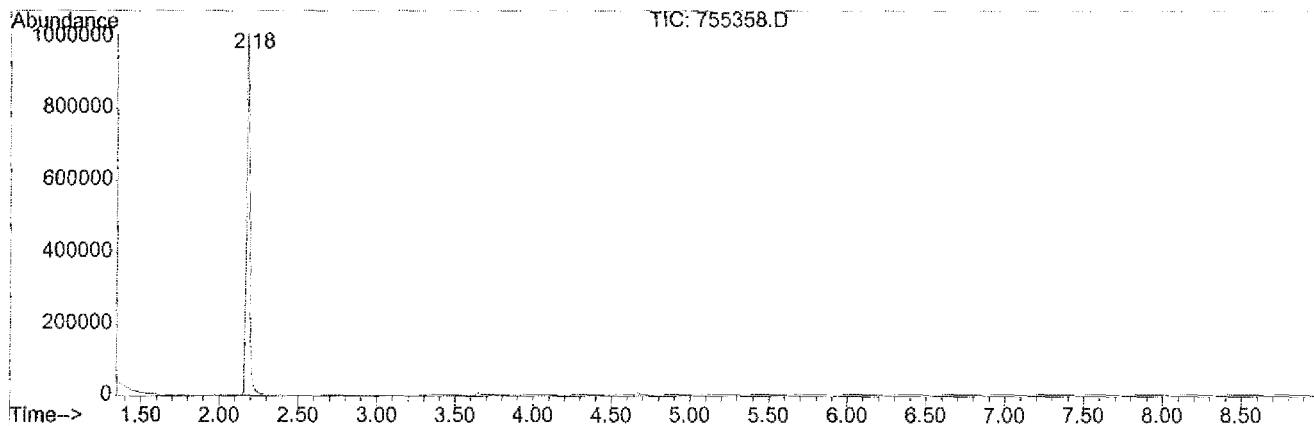
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\11_19_10\755358.D
 Operator : ASD/KAC
 Date Acquired : 20 Nov 2010 21:00
 Sample Name : BENZYLPIPERAZINE STD
 Submitted by : ASD
 Vial Number : 10
 AcquisitionMeth: MDMA
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.177	1462267	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

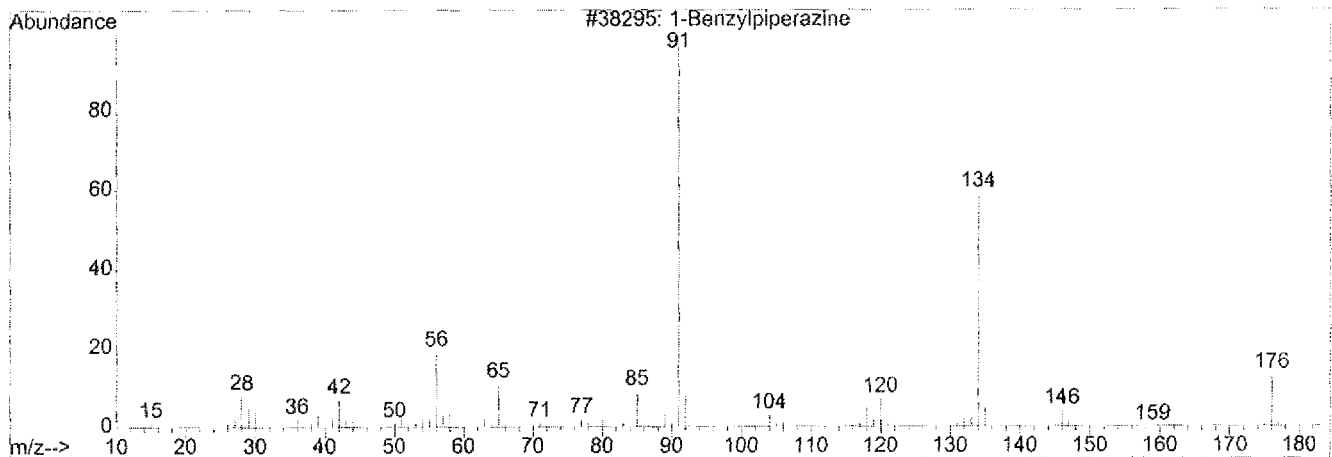
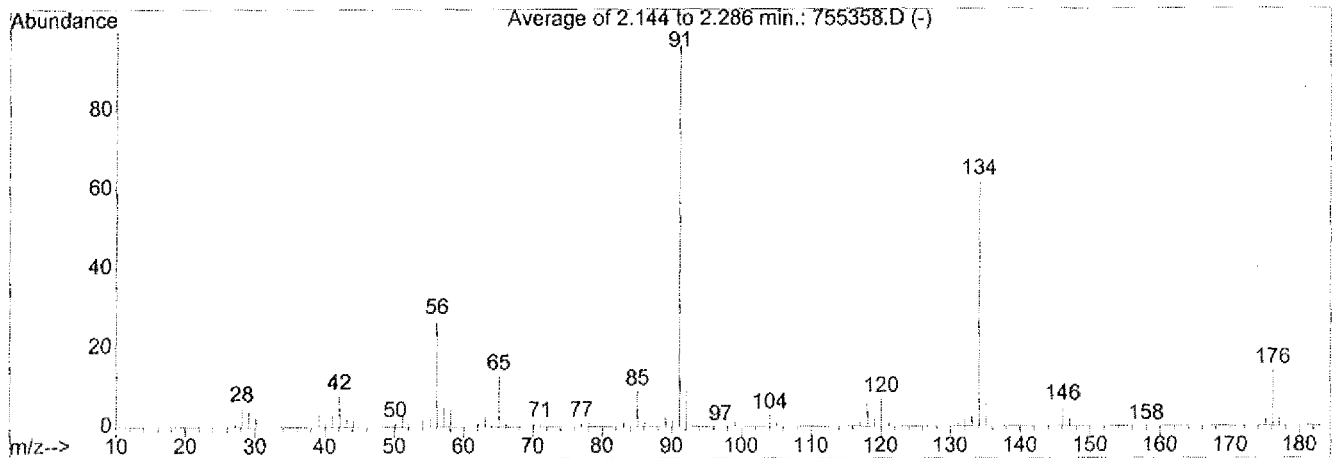
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File Name       : F:\Q4-2010\SYSTEM4\11_19_10\755358.D
Operator        : ASD/KAC
Date Acquired   : 20 Nov 2010  21:00
Sample Name     : BENZYLPIPERAZINE STD
Submitted by    : ASD
Vial Number     : 10
AcquisitionMeth : MDMA
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 95
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

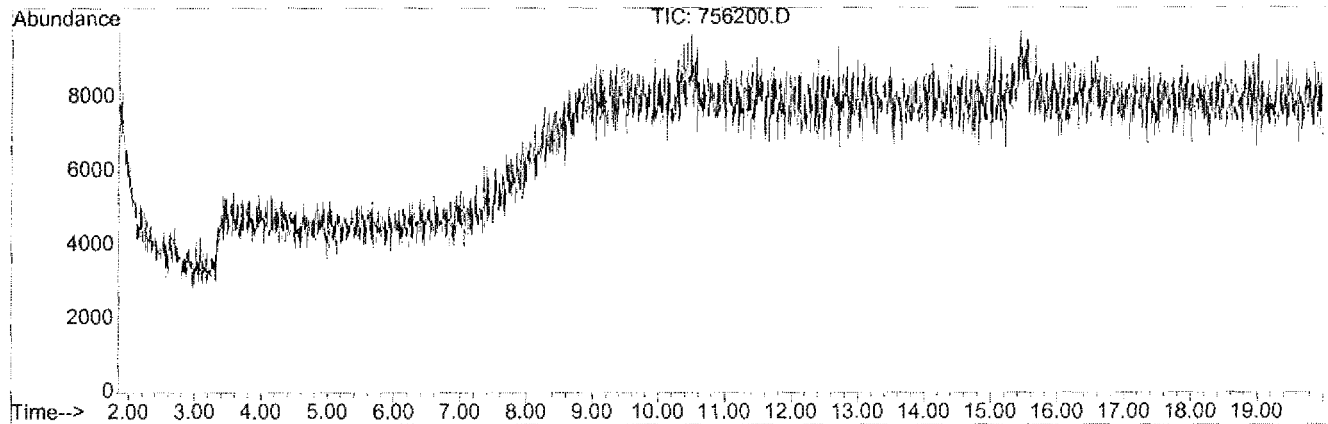
PK#	RT	Library/ID	CAS#	Qual
1	2.18	C:\DATABASE\NIST98.L		
		1-Benzylpiperazine	002759-28-6	95
		Benzene, (2-methoxyethenyl)-, (Z)-	014371-19-8	49
		Ethanol, 2-[methyl(phenylmethyl)ami	000101-98-4	43



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\11_19_10\756200.D
Operator : ASD/KAC
Date Acquired : 20 Nov 2010 14:40
Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: GENSCAN
Integrator : RTE



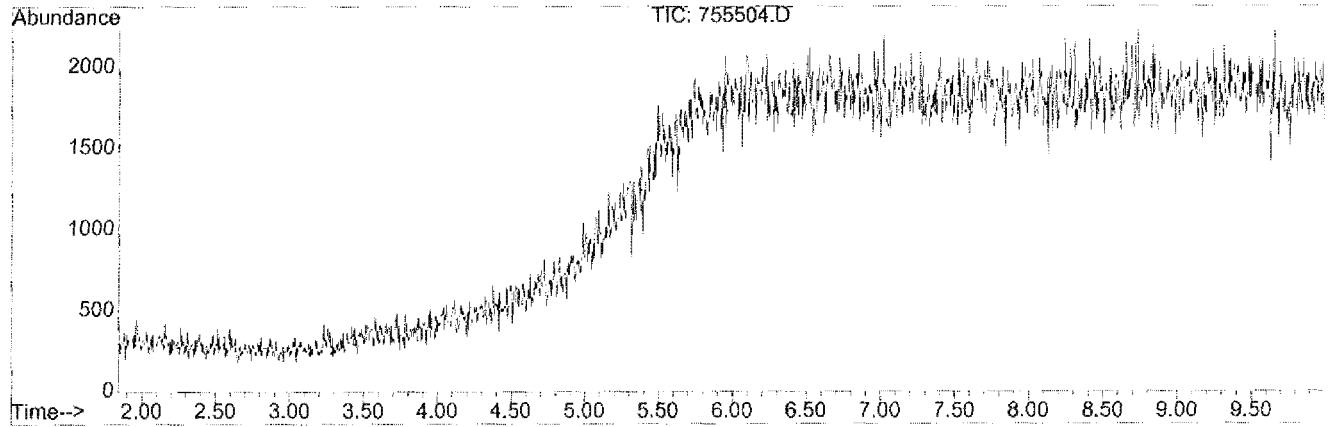
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11_17_10\755504.D
Operator : KAC
Date Acquired : 17 Nov 2010 12:26
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



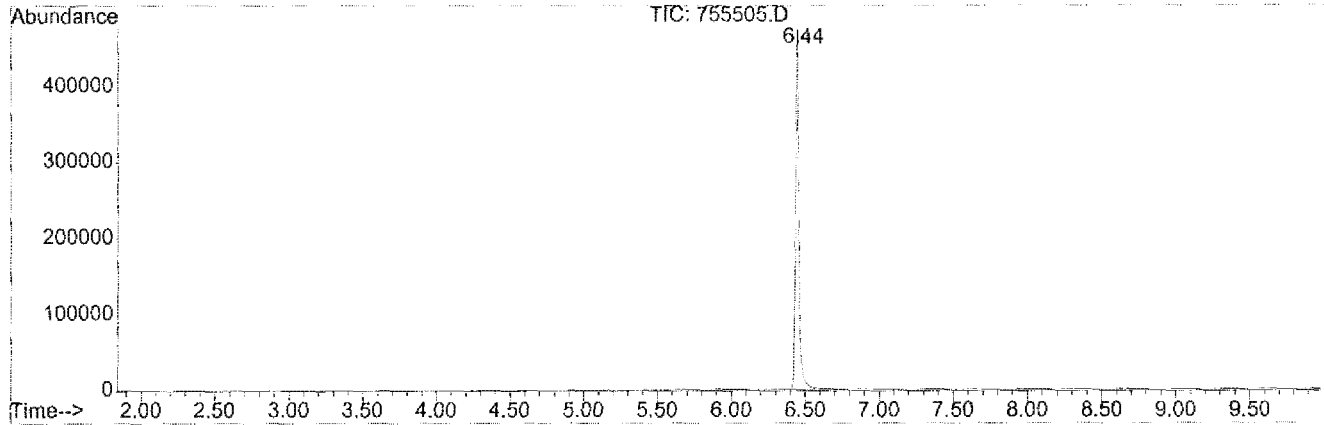
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11_17_10\755505.D
 Operator : KAC
 Date Acquired : 17 Nov 2010 12:39
 Sample Name : HEROIN STD
 Submitted by :
 Vial Number : 5
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.444	746547	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

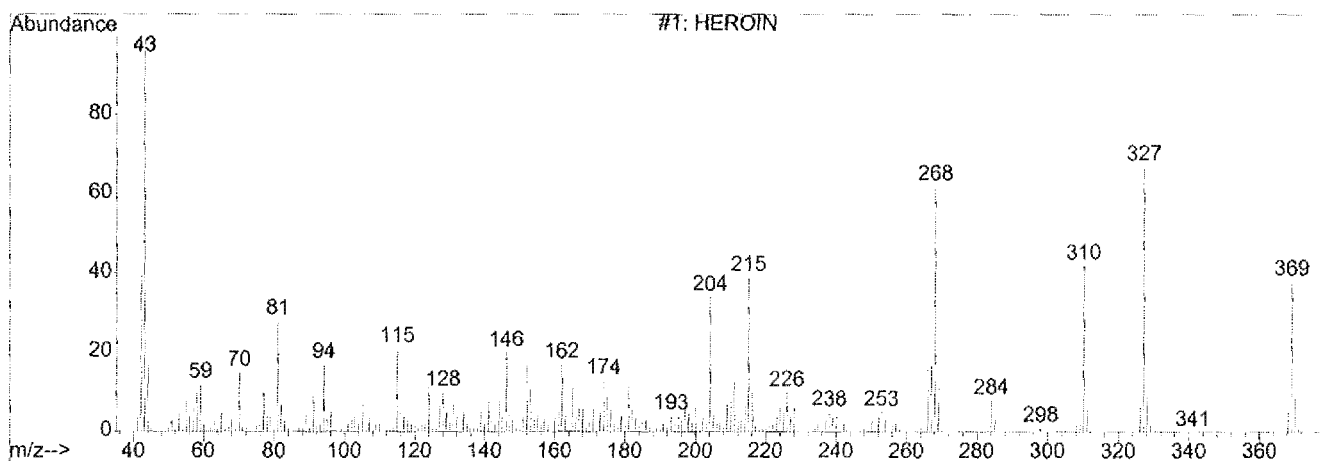
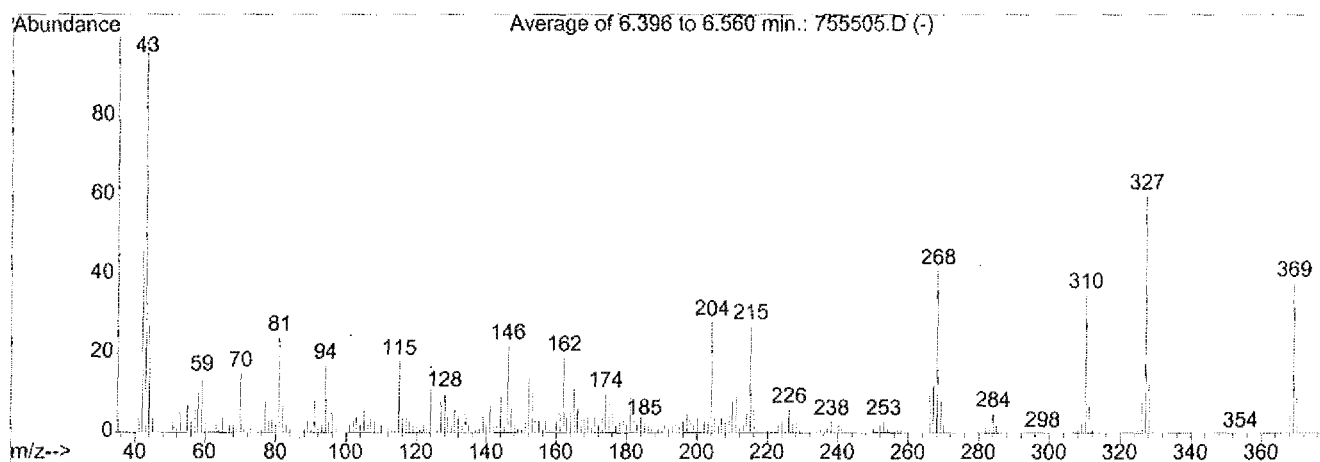
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File Name       : F:\Q4-2010\SYSTEM7\11_17_10\755505.D
Operator        : KAC
Date Acquired   : 17 Nov 2010  12:39
Sample Name     : HEROIN STD
Submitted by    :
Vial Number     : 5
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 95
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

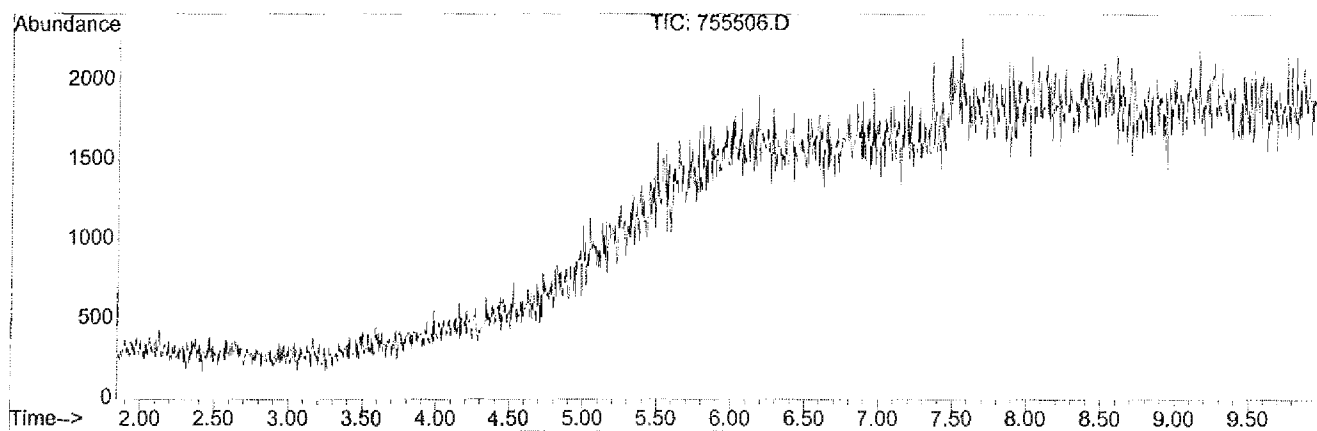
PK#	RT	Library/ID	CAS#	Qual
1	6.44	C:\DATABASE\SLI.L HEROIN	000561-27-3	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11_17_10\755506.D
Operator : KAC
Date Acquired : 17 Nov 2010 12:51
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



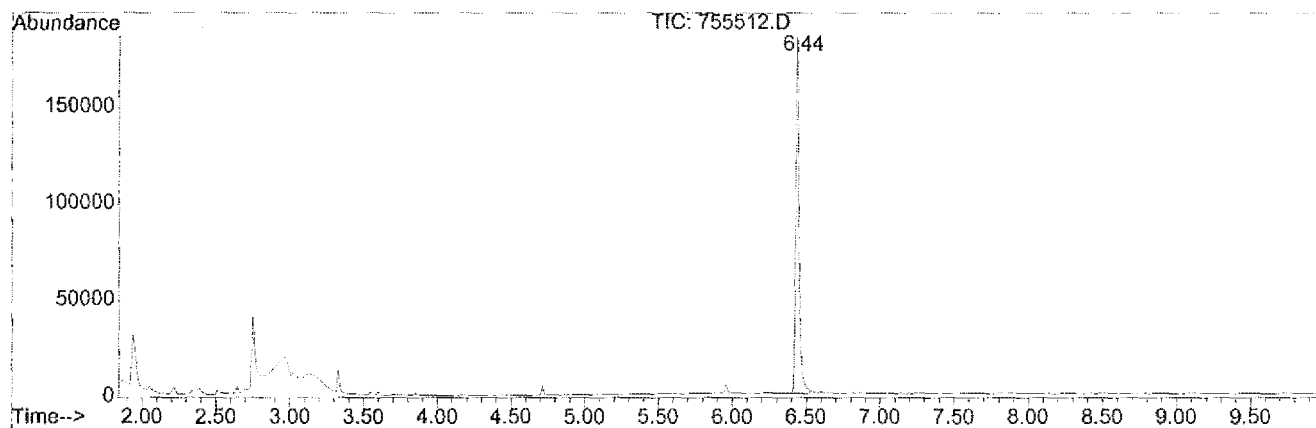
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11_17_10\755512.D
Operator : KAC
Date Acquired : 17 Nov 2010 14:07
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 12
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.438	289521	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

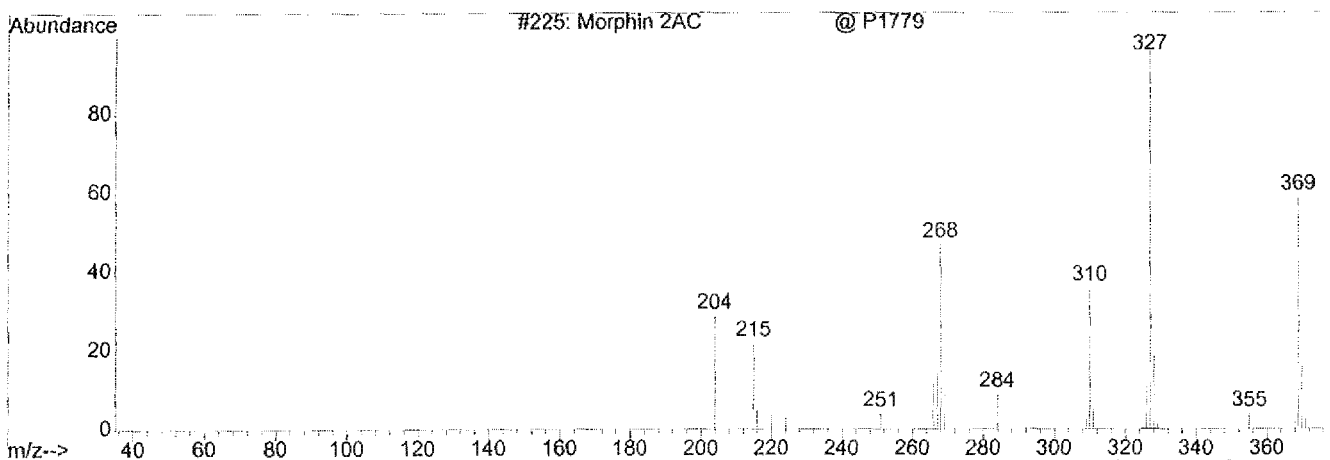
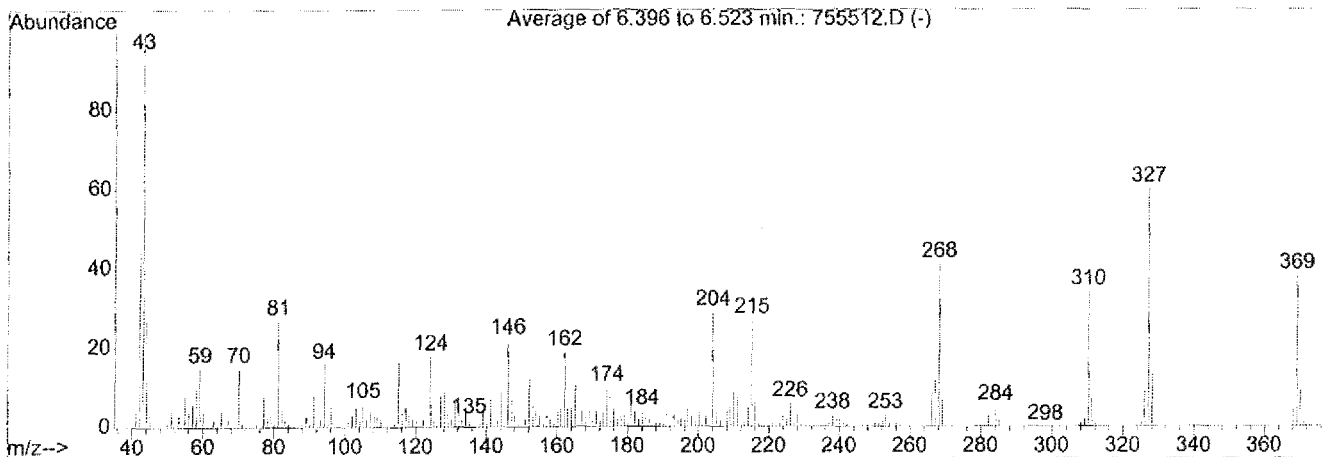
```

File Name       : F:\Q4-2010\SYSTEM7\11_17_10\755512.D
Operator        : KAC
Date Acquired   : 17 Nov 2010  14:07
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 12
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries:  C:\DATABASE\SLI.L             Minimum Quality: 95
                   C:\DATABASE\PMW_TOX2.L        Minimum Quality: 90
                   C:\DATABASE\NIST98.L
  
```

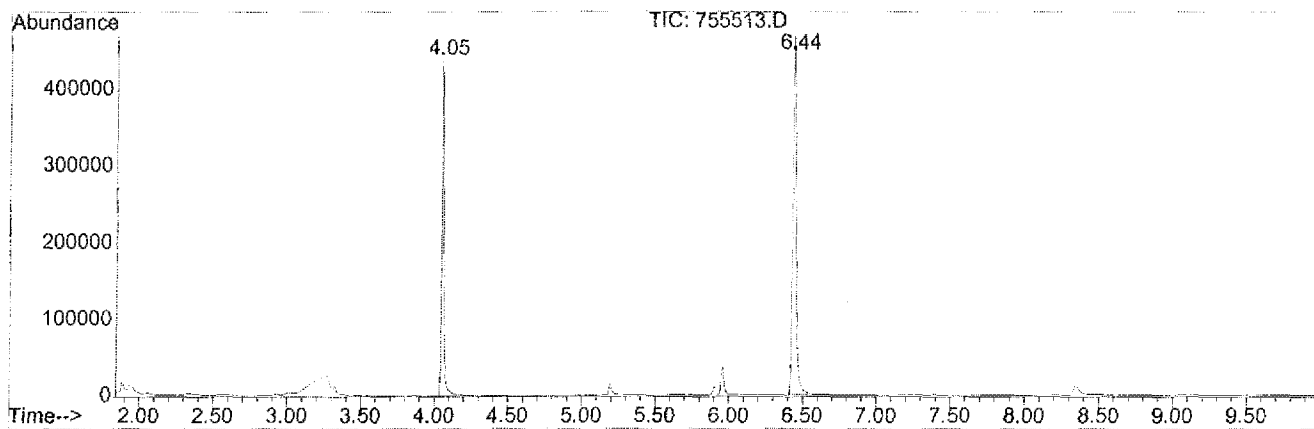
PK#	RT	Library/ID	CAS#	Qual
1	6.44	C:\DATABASE\PMW_TOX2.L		
		Morphin 2AC	@ 000561-27-3	91
		Heroin-M (6-acetyl-morphine)	059833-14-6	55
		Heroin-M (3-acetyl-morphine)	000000-00-0	22



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11_17_10\755513.D
 Operator : KAC
 Date Acquired : 17 Nov 2010 14:20
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 13
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.050	457773	38.44	62.44
6.439	733116	61.56	100.00

Area Percent / Library Search Report

Information from Data File:

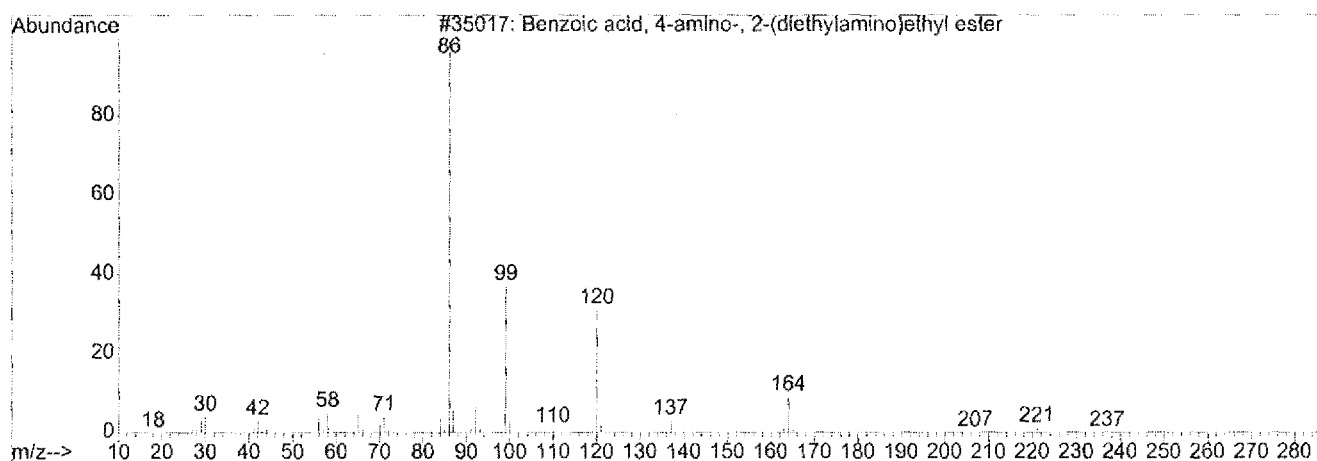
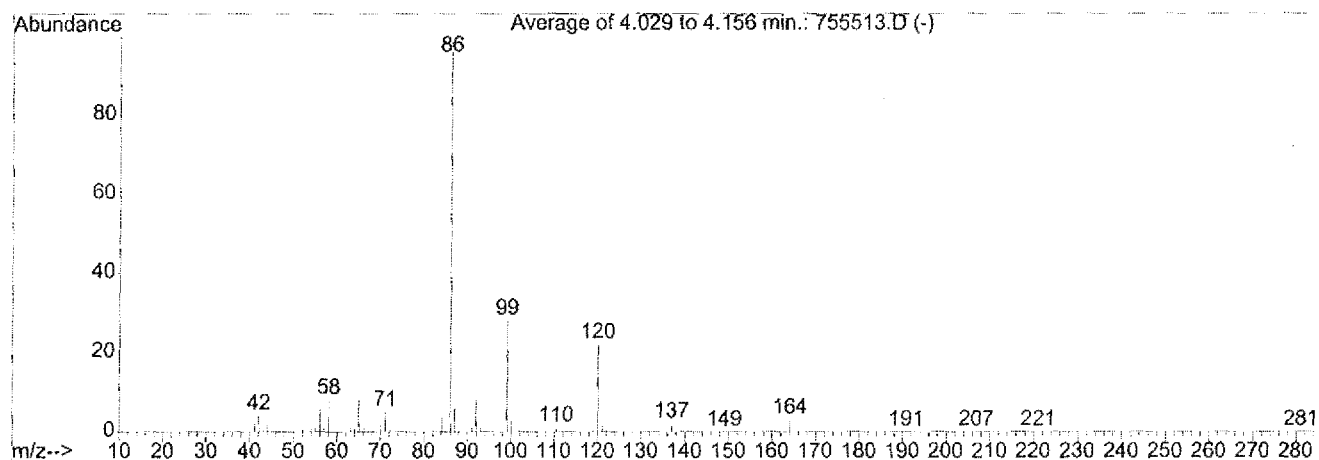
```

File Name       : F:\Q4-2010\SYSTEM7\11_17_10\755513.D
Operator        : KAC
Date Acquired   : 17 Nov 2010  14:20
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 13
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 95
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	4.05	C:\DATABASE\NIST98.L		
		Benzoic acid, 4-amino-, 2-(diethyla	000059-46-1	90
		Benzamide, 4-amino-N-[2-(diethylami	000051-06-9	72
		3-Aminobenzoic acid, 2-diethylamino	1000193-23-3	64



Area Percent / Library Search Report

Information from Data File:

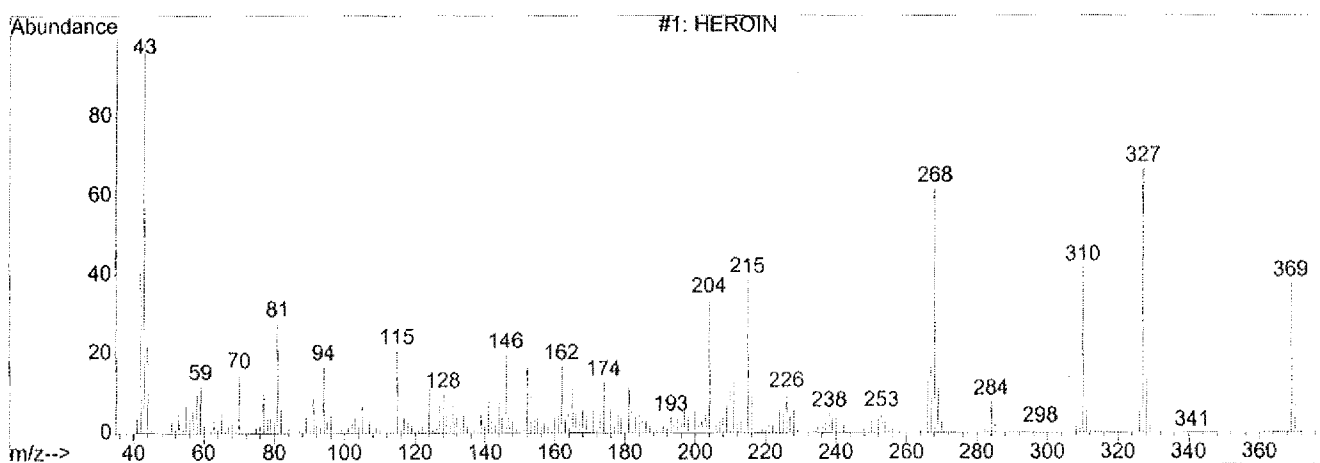
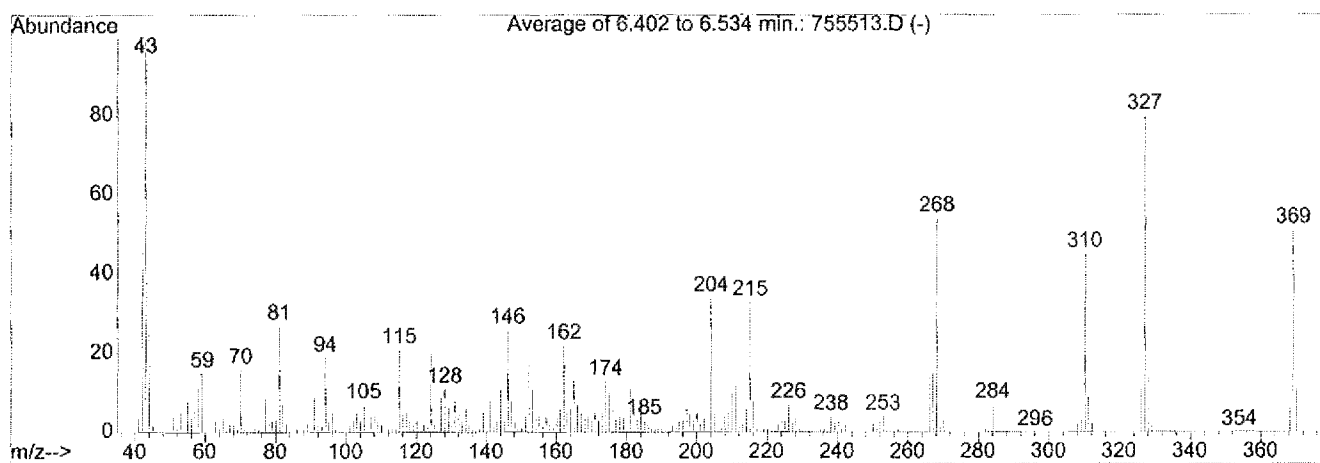
```

File Name       : F:\Q4-2010\SYSTEM7\11_17_10\755513.D
Operator        : KAC
Date Acquired   : 17 Nov 2010  14:20
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 13
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 95
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

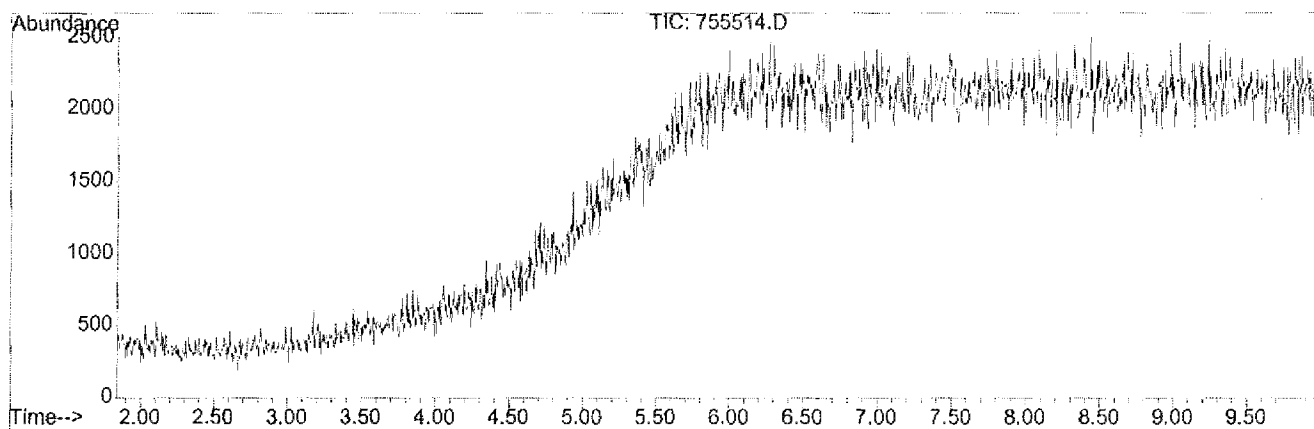
PK#	RT	Library/ID	CAS#	Qual
2	6.44	C:\DATABASE\SLI.L HEROIN	000561-27-3	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11_17_10\755514.D
Operator : KAC
Date Acquired : 17 Nov 2010 14:32
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



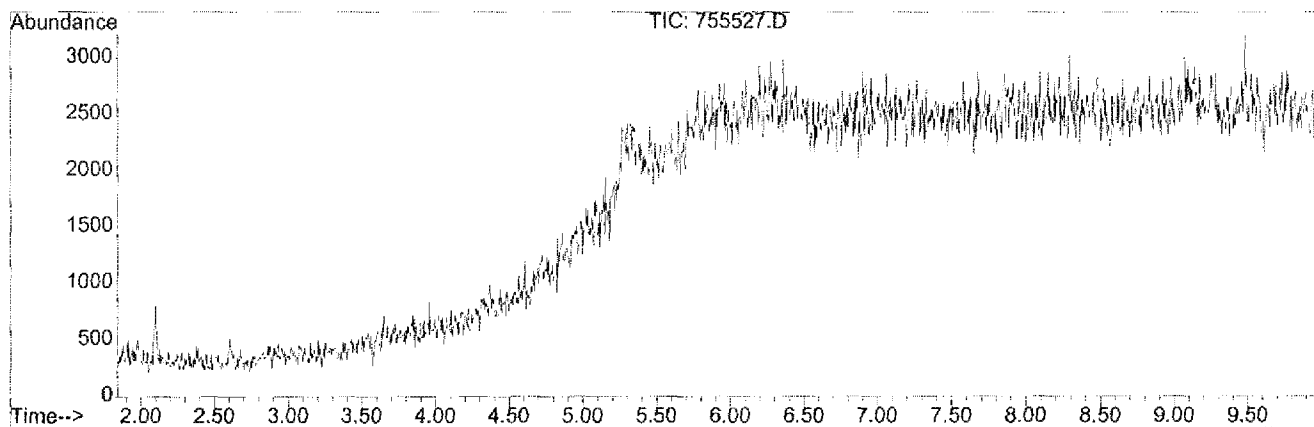
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11_17_10\755527.D
Operator : KAC
Date Acquired : 17 Nov 2010 17:17
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



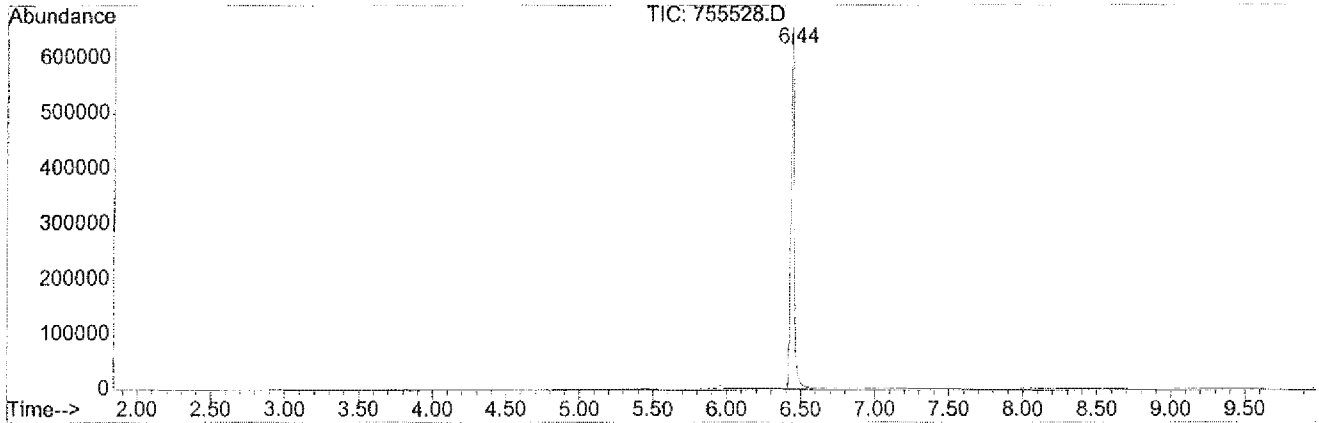
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11_17_10\755528.D
Operator : KAC
Date Acquired : 17 Nov 2010 17:30
Sample Name : HEROIN STD
Submitted by :
Vial Number : 28
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.438	1052494	100.00	100.00

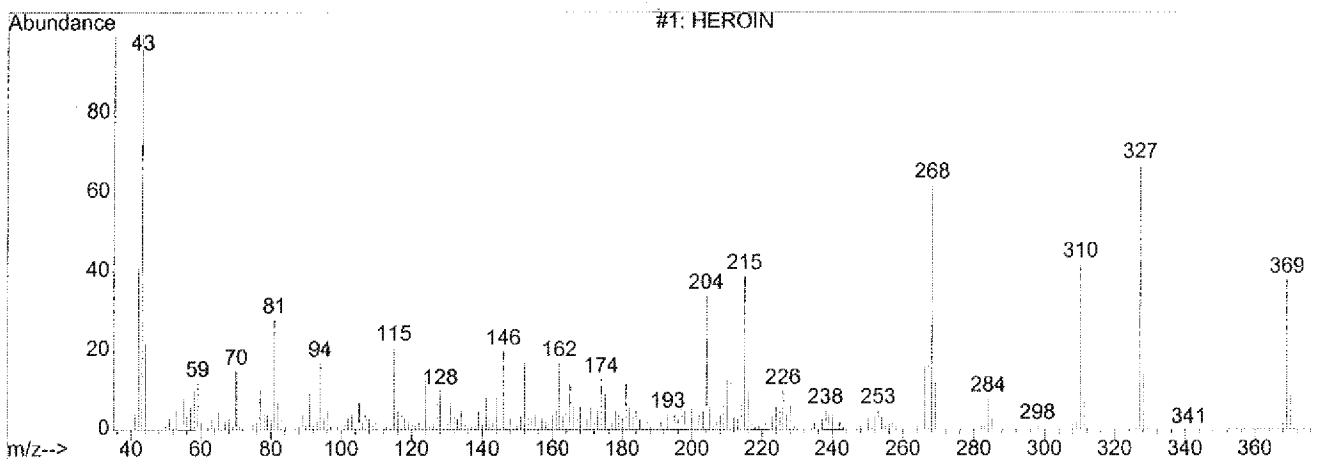
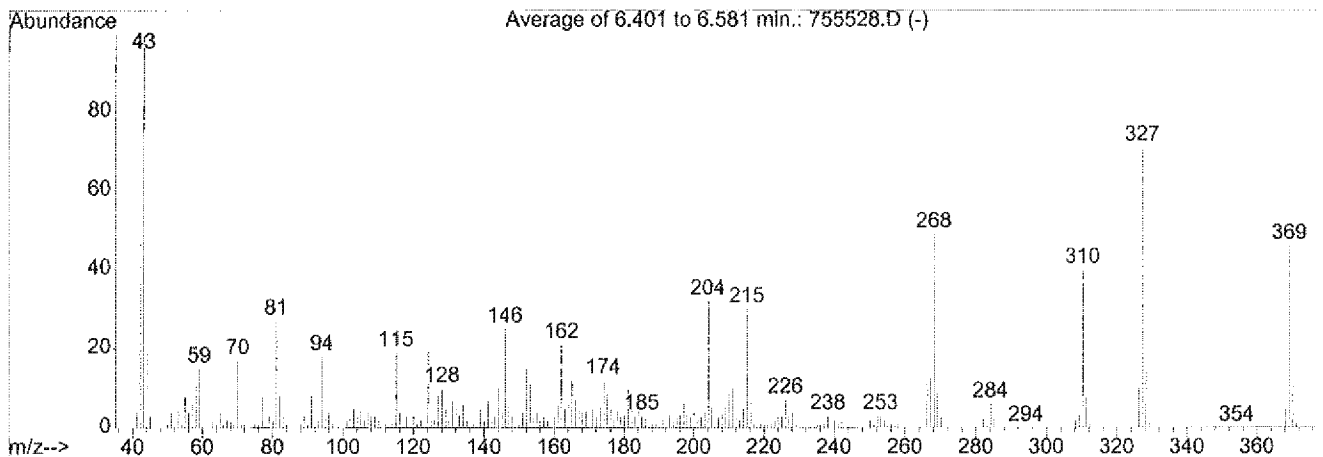
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11_17_10\755528.D
Operator : KAC
Date Acquired : 17 Nov 2010 17:30
Sample Name : HEROIN STD
Submitted by :
Vial Number : 28
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 95
C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
C:\DATABASE\NIST98.L

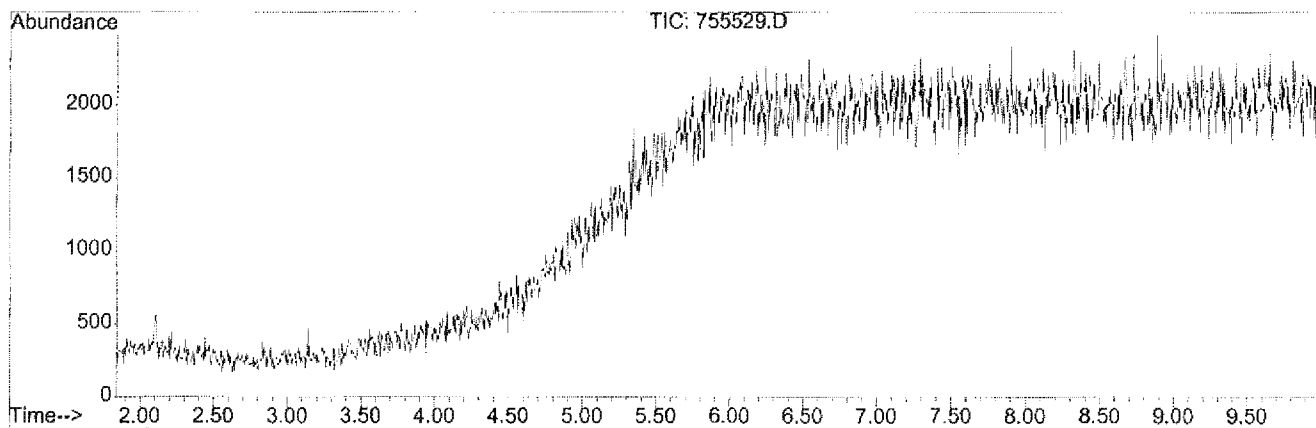
PK#	RT	Library/ID	CAS#	Qual
1	6.44	C:\DATABASE\SLI.L HEROIN	000561-27-3	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM7\11_17_10\755529.D
Operator : KAC
Date Acquired : 17 Nov 2010 17:43
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS